

-24-

:

\*

\_\_\_\_\_ ,

(hjlee@kist.re.kr\*)

(organic carbamate)

(polyurethane)

(isocyanate)

(dimethylcarbonate, DMC)

가

(aliphatic compound)

가

(aromatic compound)

가

-24-

(toluene-2,4-diamine)

DMC

(methoxycarbonylation)

(toluenediisocyanate)

TPD, BET, XRD